## CLAIMS

1. The peptides, being either epitopes or potential epitopes for the stated HLA (human leucocyte antigen) class I molecules, conservative variants thereof, and longer peptides containing these sequences which are sub-units of the indicated antigens:

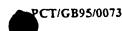
label					S	equenc	•				Position
HLA-A2	1	2	3	4	5	6	7	8	9	10	
tr26	H	L	G	N	v	ĸ	Y	L	v		3
Ntr29	L	L	M	ם	С	s	G	s	I		51
tr39	G	I	λ	G	G	L	λ	L	L		500
a ls10	I	L	Y	I	s	F	Y	P	I		4
=  	Y	I	s	F	Y	P	I	L	v		<b>6</b> .
1819	G	I	Y	ĸ	E	L	E	D	L		1801
<b>≟1823</b>	H	I	F	D	G	D	N	E	I		1883
<b>CP36</b>	Y	L	ĸ	T	I	Q	N	8	L		334
cp37	Y	L	Q	K	I	Q	N	s	L		334
cp38	Y	L	Q	K	I	ĸ	N	s	L		334
cp39	Y	L	N	ĸ	I	Q	N	s	L		334
HLA-B8							••				
cp43	L	R	K	P	X.	H	, <b>k</b>	K	L		134
cp44	L	ĸ	ĸ	I	ĸ	N	s	I	s		335
cp45	Q	v	R	I	ĸ	P	G	s	A		358
cp46	A	N	ĸ	P	ĸ	D	G	L	D		366
tr42	λ	s	K	N	ĸ	E	ĸ	λ	L		107
tr43	K	N	K	E	K	λ	L	I	I		109

	label					S	drevce	•	•			Position
•		1	2	3	4	<b>5</b> ,	. 6 .	7	. 8	9	10	•
	HLA-B17											
	cp48	ŗ	s	v	s	s	F	L	F	v		8
	cp55	G	s	A	N	K	<b>.</b> P	K	. מ	E	L	364
	cp56	С	<b>s</b> .	s	V	F	N	V	v			388
	1s36	N	s	E	K	D	E	I	I			28
	ls37	G	S	S.	N	S	R	N	R	Ţ		42
	1s39	v	s	Q	T	N	F	K	s	L		92
	1s40	K	S	L	L	R	N	L	G	v		98
<b>ļ</b>	1s42	Q	s	D	S	E	Q	E	R	L		179
	<b>ls45</b>	R	T	K	A	S	K	E	T	L		1187
	1s48	H	T	L	E	T	v	N	I			1742
Ú	1s49	I	S	Ø	V	N	D	F	Q	I		1749
	1s50	I	S	K	Y	E	D	E	I			1757
Ŋ	1851	I	S	A	E	Y	D	D	, <b>S</b>	L		1764
s C	1s53	K	S	L	Y	D	E	H	I			1854
	1854	L	S	E	D	I	T	ĸ	Y	P		1898
	ls55	T	K	Y	F	M	ĸ	L				1902
	tr57	K	T	A	S	С	G	V	W	D	EW	240
IJ	tr58	G	T	R	S	R	K	R	B	I	L	260
	tr59	S	S	V	Q	K	P	E	E	N	I	311
	tr60	D	S	E	K	E	V	P 	S	D	v	367
	tr61	. <b>Y</b>	S	P	L	P	P,	ĸ	V	L		415
	tr62	E	S	D	N	ĸ	Y	K	I	A		490
	tr63	A	T	P	Y	A	G	E	P	A		523
	tr64	E	T	L	G	E	E	D	K	D	L	535

these peptides being selected from three Plasmodium falciparum antigens, circumsporozoite protein (cp), thrombospondin-related anonymous protein (tr) and liver-stage antigen-1 (ls),

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2. A peptide comprising at least two of the sequences listed in claim 1.

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- A peptide as claimed in claim 1 or claim 2 having an N-terminus or C-terminus carrying a lipid tail.
- 4. A peptide as claimed in any one of claims 1 to 3, comprising 8-100 amino acid residues.
- A vaccine comprising at least one peptide according to any one of claims 1 to 4, for immunisation against malaria.
- Use of Plasmodium falciparum gene or protein 6. TRAP (thrombospondin-related anonymous protein) as a cytotoxic T lymphocyte-inducing gene or protein for immunization against malaria.
- 15 7. Oligonucleotides which code for the peptides claimed in any one of claims 1 to 4.
  - 8. A vaccine comprising at least one oligonucleotide according to claim 7 for expression in vivo for immunization against malaria.
- □ 20 9. A method of inducing primary cytotoxic T lymphocyte responses to a chosen antigen or microorganism, which method comprises incubating lymphocytes ex vivo with the chosen antigen or microorganism in the presence of KLH (keyhole limpet
  - 25 haemocyanin) or any other substance which preferentially stimulates a CD45RA+ subset of T lymphocyte.
    - 10. A method as claimed in claim 9, wherein IL-7 (interleukin-7) and/or IL-2 (interleukin-2) is also
  - 30 present during incubation.

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11.	Use	of	any	one	of	the	peptides:
			1				~~~~ <i>~~~</i> .

label					S	ednenc	• · · ·	٠.	•		Position
HLA-B7	1	2	3	4	5	6	7	8	9	10	
cp6	, <b>M</b>	P	N	D	P	n	R	N	v		300
cp6.1	M	P	<b>N</b> .	Y	P	N	<b>R</b>	N	v		300
cp6.2	M	₽.	Я	N	P	N	R	N	v		300
ls6	K	P	I	v	Q	Y	D	N	F		1786
sh1	I	P	S	L	A	L	M	L	. I		7
sh6	M	P	L	E	T	Q	L	A	I		77
cp21	N	P	۵	P	N	A	N	P	N	v	120
tr6	N	P	E	N	P	P	N	P	D	I	348
tr13	I	P	D	s	I	Q	D	s	L		164
tr15	E	P	A	P	F	D	E	T	L		529
tr21	G	P	F	M	ĸ	A	V	С	V		228

and conservative variants thereof and longer peptides containing the sequences which are sub-units of the stated antigen, and of oligonucleotides which code for the said peptides, as a cytotoxic T lymphocyte-inducer for immunization against malaria of individuals possessing a HLA-B7 allele.